

WHAT IS CLAIMED IS:

1. A panel driving control device, comprising:
 - a liquid-crystal panel control device that controls the driving of a liquid-crystal panel by applying an AC voltage to said panel;
 - an organic-EL-panel control device that controls the driving of an electro luminescence panel by applying an AC voltage to said panel; and
 - a frequency supply device that supplies, to said liquid-crystal panel control device and said organic-EL-panel control device, a driving frequency which is required for the organic electro luminescence panel to display an object to be displayed without flicker when said organic electro luminescence panel is AC-driven,
 - wherein said liquid-crystal panel control device and said organic-EL-panel control device control said driving on the basis of the driving frequency supplied by said frequency supply device.
2. A panel driving control device according to Claim 1, the driving frequency supplied by said frequency supply device being approximately twice the driving frequency which is normally required for the liquid-crystal panel to be driven.
3. A panel driving control device according to Claim 1, the driving frequency supplied by said frequency supply device being a frequency which is greater than or equal to 50 Hz.
4. A panel driving control device, comprising:
 - a liquid-crystal panel control device that controls the driving of a liquid-crystal panel by applying an AC voltage to said panel;
 - an organic-EL-panel control device that controls the driving of an organic electro luminescence panel by applying an AC voltage to said panel for displaying a single color; and
 - a voltage supply device that supplies, to said liquid-crystal panel control device and said organic-EL-panel control device, a driving voltage by which the on/off state of both said liquid-crystal panel and said organic electro luminescence panel can be controlled by a common driving method,
 - wherein said liquid-crystal panel control device and said organic-EL-panel control device control said driving on the basis of said supplied driving voltage.
5. A panel driving control device according to Claim 4, the driving voltage supplied by said common driving method and said voltage supply device being determined by said single color displayed on said organic electro luminescence panel.

6. A panel driving control device, comprising:

a liquid-crystal panel control device that controls the driving of a liquid-crystal panel by applying an AC voltage to the said panel;

an organic-EL-panel control device that controls the driving of an organic EL panel by applying an AC voltage to said panel for displaying a plurality of colors;

a driving method selection device that selects a driving voltage and a driving method for driving said liquid-crystal panel and said organic electro luminescence panel in accordance with the display color displayed by said organic electro luminescence panel;

a driving method reporting device that reports the driving method selected by said driving method selection device to said liquid-crystal panel control device and said organic-EL-panel control device; and

a driving voltage supply device that supplies the driving voltage selected by said driving method selection device to said liquid-crystal panel control device and said organic-EL-panel control device,

wherein said liquid-crystal panel control device and said organic-EL-panel control device control said driving by the driving method reported by said driving method reporting device on the basis of the driving voltage supplied by said driving voltage supply device.

7. A panel driving control device according to Claim 6, said driving method selection device

selecting a driving voltage suitable for driving a display color displayed by said organic electro luminescence panel from among a plurality of driving voltages of different magnitudes, and

selecting a driving method of a duty ratio suitable for driving a display color to be displayed by said organic electro luminescence panel from among a plurality of driving methods of different duty ratios.

8. A wristwatch-type information device, comprising:

a panel driving control device according to claim 1;

a liquid-crystal panel whose driving is controlled by said panel driving control device;

an organic electro luminescence panel whose driving is controlled by said panel driving control device;

a power-supply device that supplies power to said panel driving control device; and

a clock supply device that supplies, to said panel driving control device, a clock signal required for the panel driving control device to perform driving control.

9. A portable device, comprising:

a panel driving control device according to claim 1;

a liquid-crystal panel whose driving is controlled by said panel driving control device;

an organic electro luminescence panel whose driving is controlled by said panel driving control device;

a power-supply device that supplies power to said panel driving control device; and

a clock supply device that supplies, to said panel driving control device, a clock signal required for the panel driving control device to perform driving control.

10. A panel driving control method, comprising:

supplying a driving frequency which is required for an organic electro luminescence panel to display an object to be displayed without flicker when the organic EL panel is AC-driven;

controlling the driving of the liquid-crystal panel by applying an AC voltage to the liquid-crystal panel on the basis of said supplied driving frequency; and

controlling the driving of the organic electro luminescence panel by applying an AC voltage to said panel on the basis of said supplied driving frequency.

11. A panel driving control method according to Claim 10, the driving frequency being approximately twice the driving frequency which is normally required for the liquid-crystal panel to be driven.

12. A panel driving control device according to Claim 10, the driving frequency being a frequency which is greater than or equal to 50 Hz.

13. A panel driving control method, comprising:

supplying a driving voltage by which an on/off state of both a liquid-crystal panel and an organic electro luminescence panel that displays a single color can be controlled by a common driving method on the basis of said supplied driving voltage;

controlling the driving of the liquid-crystal panel by applying an AC voltage to said panel on the basis of said supplied driving voltage; and

controlling the driving of the organic electro luminescence panel by applying an AC voltage to said panel on the basis of said supplied driving voltage.

14. A panel driving control device according to Claim 13, the driving voltage supplied in said common driving step and said voltage supply step being determined by said single color displayed on said organic EL panel.

15. A panel driving control method, comprising:

selecting a driving voltage and a driving method for driving a liquid-crystal panel and an organic electro luminescence panel in accordance with the display color displayed by the organic electro luminescence panel capable of displaying a plurality of colors;

supplying the driving voltage selected in said driving method selection step;

controlling the driving of the liquid-crystal panel by applying an AC voltage to said panel on the basis of said selected driving method and said supplied driving voltage; and

controlling the driving of the organic electro luminescence panel by applying an AC voltage to said panel on the basis of said selected driving method and said supplied driving voltage.

16. A panel driving control method according to Claim 15, wherein said driving method selection step includes:

selecting a driving voltage suitable that drives a display color displayed by said organic electro luminescence panel from among a plurality of driving voltages of different magnitudes, and

selecting a driving method of a duty ratio suitable for driving a display color to be displayed by said organic electro luminescence panel from among a plurality of driving methods of different duty ratios.